



SEQUENCE LISTING

<110> Skolnick, Jeffery
Fetrow, Jacquelyn

<120> METHODS AND SYSTEMS FOR PREDICTING PROTEIN FUNCTION

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<160> 12

<170> PatentIn version 3.0

<210> 1

<211> 130

<212> PRT

<213> Unknown

<400> 1

Met Met Tyr Ser Lys Leu Leu Thr Leu Thr Thr Leu Leu Leu Pro Thr
1 5 10 15
Ala Leu Ala Leu Pro Ser Leu Val Glu Arg Ala Cys Asp Tyr Thr Cys
20 25 30
Gly Ser Asn Cys Tyr Ser Ser Ser Asp Val Ser Thr Ala Gln Ala Ala
35 40 45
Gly Tyr Gln Leu His Glu Asp Gly Glu Thr Val Gly Ser Asn Ser Tyr
50 55 60
Pro His Lys Tyr Asn Asn Tyr Glu Gly Phe Asp Phe Ser Val Ser Ser
65 70 75 80
Pro Tyr Tyr Glu Trp Pro Ile Leu Ser Ser Gly Asp Val Tyr Ser Gly
85 90 95
Gly Ser Pro Gly Ala Asp Arg Val Val Phe Asn Glu Asn Asn Gln Leu
100 105 110

Ala Gly Val Ile Thr His Thr Gly Ala Ser Gly Asn Asn Phe Val Glu
 115 120 125
 Cys Thr
 130

<210> 2
 <211> 76
 <212> PRT
 <213> Unknown

<400> 2

Gln Ser Ala Thr Thr Cys Gly Ser Thr Asn Tyr Ser Ala Ser Gln Val
 1 5 10 15
 Arg Ala Ala Ala Asn Ala Ala Cys Gln Tyr Tyr Gln Asn Asp Asp Ser
 20 25 30
 Ala Gly Ser Thr Thr Tyr Pro His Thr Tyr Asn Asn Tyr Glu Gly Phe
 35 40 45
 Asp Phe Pro Val Asp Gly Pro Tyr Gln Glu Phe Pro Ile Lys Ser Gly
 50 55 60
 Gly Val Tyr Thr Gly Gly Ser Pro Gly Ala Asp Arg
 65 70 75

<210> 3
 <211> 105
 <212> PRT
 <213> Unknown

<400> 3

Glu Ser Cys Glu Tyr Thr Cys Gly Ser Thr Cys Tyr Trp Ser Ser Asp
 1 5 10 15
 Val Ser Ala Ala Lys Ala Lys Gly Tyr Ser Leu Tyr Glu Ser Gly Asp
 20 25 30
 Thr Ile Asp Asp Tyr Pro His Gly Tyr His Asp Tyr Glu Gly Phe Asp
 35 40 45
 Phe Pro Val Ser Gly Thr Tyr Tyr Glu Tyr Pro Ile Met Ser Asp Tyr
 50 55 60
 Asp Val Tyr Thr Gly Gly Ser Pro Gly Ala Asp Arg Val Ile Phe Asn
 65 70 75 80
 Gly Asp Asp Glu Leu Ala Gly Val Ile Thr His Thr Gly Ala Ser Gly
 85 90 95
 Asp Asp Phe Val Ala Cys Ser Ser Ser
 100 105

<210> 4
 <211> 113
 <212> PRT
 <213> Unknown

<400> 4

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Cys Asn Ile Pro Glu Ser Thr Asn Cys Gly Gly Asn Val Tyr Ser Asn
1      5      10      15
Asp Asp Ile Asn Thr Ala Ile Gln Gly Ala Leu Asp Asp Val Ala Arg
      20      25      30
Pro Asp Gly Asp Asn Tyr Pro His Gln Tyr Tyr Asp Glu Ala Ser Glu
      35      40      45
Asp Ile Thr Leu Cys Cys Gly Pro Gly Ser Trp Ser Glu Phe Pro Leu
      50      55      60
Val Tyr Asn Gly Pro Tyr Tyr Ser Ser Arg Asp Asn Tyr Val Ser Pro
65      70      75      80
Gly Pro Asp Arg Val Ile Tyr Gln Thr Asn Thr Gly Glu Phe Cys Ala
      85      90      95
Thr Val Thr His Thr Gly Ala Ala Ser Tyr Asp Gly Phe Thr Gln Cys
      100     105     110
Ser
  
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<210> 5
 <211> 104
 <212> PRT
 <213> Unknown

<400> 5

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Asp Cys Asp Tyr Thr Cys Gly Ser His Cys Tyr Ser Ala Ser Ala Val
1      5      10      15
Ser Asp Ala Gln Ser Ala Gly Tyr Gln Leu Glu Ser Ala Gly Gln Ser
      20      25      30
Val Gly Arg Ser Arg Tyr Pro His Gln Tyr Arg Asn Tyr Glu Gly Phe
      35      40      45
Asn Phe Pro Val Ser Gly Asn Tyr Tyr Glu Trp Pro Ile Leu Ser Ser
      50      55      60
Gly Ser Thr Tyr Asn Gly Gly Gly Pro Gly Ala Asp Arg Val Val Phe
65      70      75      80
Asn Asp Asn Asp Glu Leu Ala Gly Leu Ile Thr His Thr Gly Ala Ser
      85      90      95
Gly Asp Gly Phe Val Ala Cys Tyr
      100
  
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<210> 6
<211> 102
<212> PRT
<213> Unknown

<400> 6

Ala Cys Ala Ala Thr Cys Gly Thr Val Cys Tyr Thr Ser Ser Ala Ile
1 5 10 15
Ser Ser Ala Gln Ala Ala Gly Tyr Asn Leu Tyr Ser Thr Asn Asp Asp
20 25 30
Val Ser Asn Tyr Pro His Glu Tyr His Asn Tyr Glu Gly Phe Asp Phe
35 40 45
Pro Val Ser Gly Thr Tyr Tyr Glu Phe Pro Ile Leu Lys Ser Gly Lys
50 55 60
Val Tyr Thr Gly Ser Ser Pro Gly Ala Asp Arg Val Ile Phe Asn Asp
65 70 75 80
Asp Asp Glu Leu Ala Gly Val Ile Thr His Thr Gly Ala Ser Gly Asn
85 90 95
Asn Phe Val Ala Cys Thr
100

<210> 7
<211> 102
<212> PRT
<213> Unknown

<400> 7

Ala Cys Ala Ala Thr Cys Gly Ser Val Cys Tyr Thr Ser Ser Ala Ile
1 5 10 15
Ser Ala Ala Gln Glu Ala Gly Tyr Asp Leu Tyr Ser Ala Asn Asp Asp
20 25 30
Val Ser Asn Tyr Pro His Glu Tyr Arg Asn Tyr Glu Gly Phe Asp Phe
35 40 45
Pro Val Ser Gly Thr Tyr Tyr Glu Phe Pro Ile Leu Arg Ser Gly Ala
50 55 60
Val Tyr Ser Gly Asn Ser Pro Gly Ala Asp Arg Val Val Phe Asn Gly
65 70 75 80
Asn Asp Gln Leu Ala Gly Val Ile Thr His Thr Gly Ala Ser Gly Asn
85 90 95
Asn Phe Val Ala Cys Asp
100

<210> 8
<211> 104
<212> PRT
<213> Unknown

<400> 8

Ala Cys Met Tyr Ile Cys Gly Ser Val Cys Tyr Ser Ser Ser Ala Ile
1 5 10 15
Ser Ala Ala Leu Asn Lys Gly Tyr Ser Tyr Tyr Glu Asp Gly Ala Thr
20 25 30
Ala Gly Ser Ser Ser Tyr Pro His Arg Tyr Asn Asn Tyr Glu Gly Phe
35 40 45
Asp Phe Pro Thr Ala Lys Pro Trp Tyr Glu Phe Pro Ile Leu Ser Ser
50 55 60
Gly Arg Val Tyr Thr Gly Gly Ser Pro Gly Ala Asp Arg Val Ile Phe
65 70 75 80
Asp Ser His Gly Asn Leu Asp Met Leu Ile Thr His Asn Gly Ala Ser
85 90 95
Gly Asn Asn Phe Val Ala Cys Asn
100

<210> 9
<211> 105
<212> PRT
<213> Unknown

<400> 9

Gln Gly Gly Val Ser Val Asn Cys Gly Gly Thr Tyr Tyr Ser Ser Thr
1 5 10 15
Gln Val Asn Arg Ala Ile Asn Asn Ala Lys Ser Gly Gln Tyr Ser Ser
20 25 30
Thr Gly Tyr Pro His Thr Tyr Asn Asn Tyr Glu Gly Phe Asp Phe Ser
35 40 45
Asp Tyr Cys Asp Gly Pro Tyr Lys Glu Tyr Pro Leu Lys Thr Ser Ser
50 55 60
Ser Gly Tyr Thr Gly Gly Ser Pro Gly Ala Asp Arg Val Val Tyr Asp
65 70 75 80
Ser Asn Asp Gly Thr Phe Cys Gly Ala Ile Thr His Thr Gly Ala Ser
85 90 95
Gly Asn Asn Phe Val Gln Cys Ser Tyr
100 105

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<210> 10
<211> 177
<212> PRT
<213> Unknown

<400> 10

Met Val Ala Ile Lys Asn Leu Val Leu Val Ala Leu Thr Ala Val Thr
1 5 10 15
Ala Leu Ala Val Pro Ser Pro Leu Glu Ala Arg Ala Val Thr Trp Thr
20 25 30
Cys Leu Asn Asp Gln Lys Asn Pro Lys Thr Asn Lys Tyr Glu Thr Lys
35 40 45
Arg Leu Leu Tyr Asn Gln Asn Lys Ala Glu Ser Asn Ser His His Ala
50 55 60
Pro Leu Ser Asp Gly Lys Thr Gly Ser Ser Tyr Pro His Trp Phe Thr
65 70 75 80
Asn Gly Tyr Asp Gly Asp Gly Lys Leu Pro Lys Gly Arg Thr Pro Ile
85 90 95
Lys Phe Gly Lys Ser Asp Cys Asp Arg Pro Pro Lys His Ser Lys Asp
100 105 110
Gly Asn Gly Lys Thr Asp His Tyr Leu Leu Glu Phe Pro Thr Phe Pro
115 120 125
Asp Gly His Asp Tyr Lys Phe Asp Ser Lys Lys Pro Lys Glu Asn Pro
130 135 140
Gly Pro Ala Arg Val Ile Tyr Thr Tyr Pro Asn Lys Val Phe Cys Gly
145 150 155 160
Ile Ile Ala His Thr Lys Glu Asn Gln Gly Glu Leu Lys Leu Cys Ser
165 170 175
His

<210> 11
<211> 182
<212> PRT
<213> Unknown

<400> 11

Met Val Ala Ile Lys Asn Leu Val Leu Val Ala Leu Thr Ala Val Thr
1 5 10 15
Ala Leu Ala Met Pro Ser Pro Leu Glu Glu Arg Ala Ala Thr Trp Thr
20 25 30
Cys Met Asn Glu Gln Lys Asn Pro Lys Thr Asn Lys Tyr Glu Asn Lys
35 40 45
Arg Leu Leu Tyr Asn Gln Asn Asn Ala Glu Ser Asn Ala His His Ala
50 55 60

Pro Leu Ser Asp Gly Lys Thr Gly Ser Ser Tyr Pro His Trp Phe Thr
 65 70 75 80
 Asn Gly Tyr Asp Gly Asp Gly Lys Ile Leu Lys Gly Arg Thr Pro Ile
 85 90 95
 Lys Trp Gly Asn Ser Asp Cys Asp Arg Pro Pro Lys His Ser Lys Asn
 100 105 110
 Gly Asp Gly Lys Asn Asp His Tyr Leu Leu Glu Phe Pro Thr Phe Pro
 115 120 125
 Asp Gly His Gln Tyr Asn Phe Asp Ser Lys Lys Pro Lys Glu Asp Pro
 130 135 140
 Gly Pro Ala Arg Ala Ser Pro Cys Leu Val Ile Tyr Thr Tyr Pro Asn
 145 150 155 160
 Lys Val Phe Cys Gly Ile Val Ala His Thr Arg Glu Asn Gln Gly Asp
 165 170 175
 Leu Lys Leu Cys Ser His
 180

<210> 12
 <211> 176
 <212> PRT
 <213> Unknown

<400> 12
 Met Val Ala Ile Lys Asn Leu Phe Leu Leu Ala Ala Thr Ala Val Ser
 1 5 10 15
 Val Leu Ala Ala Pro Ser Pro Leu Asp Ala Arg Ala Thr Trp Thr Cys
 20 25 30
 Ile Asn Gln Gln Leu Asn Pro Lys Thr Asn Lys Trp Glu Asp Lys Arg
 35 40 45
 Leu Leu Tyr Ser Gln Ala Lys Ala Glu Ser Asn Ser His His Ala Pro
 50 55 60
 Leu Ser Asp Gly Lys Thr Gly Ser Ser Tyr Pro His Trp Phe Thr Asn
 65 70 75 80
 Gly Tyr Asp Gly Asn Gly Lys Leu Ile Lys Gly Arg Thr Pro Ile Lys
 85 90 95
 Phe Gly Lys Ala Asp Cys Asp Arg Pro Pro Lys His Ser Gln Asn Gly
 100 105 110
 Met Gly Lys Asp Asp His Tyr Leu Leu Glu Phe Pro Thr Phe Pro Asp
 115 120 125
 Gly His Asp Tyr Lys Phe Asp Ser Lys Lys Pro Lys Glu Asp Pro Gly
 130 135 140
 Pro Ala Arg Val Ile Tyr Thr Tyr Pro Asn Lys Val Phe Cys Gly Ile
 145 150 155 160
 Val Ala His Gln Arg Gly Asn Gln Gly Asp Leu Arg Leu Cys Ser His
 165 170 175